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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
.09/522,185	03/09/2000	Henry Li	36713/CAG/B600	2282	
23363 7590 07/09/2004 CHRISTIE, PARKER & HALE, LLP PO BOX 7068			ЕХАМП	EXAMINER	
			VINCENT, DAVID ROBERT		
PASADENA, C	CA 91109-7068		ART UNIT	PAPER NUMBER	
·			2661	lb	
			DATE MAILED: 07/09/2004	7	

Please find below and/or attached an Office communication concerning this application or proceeding.

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ť		Application No.	Applicant(s)			
Office Action Summary		09/522,185	LI ET AL.			
		Examiner	Art Unit			
		David R Vincent	2661			
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet w	ith the correspondence addres	s		
A SH THE - Exte after - If the - If NO - Faill Any	IORTENED STATUTORY PERIOD FOR REI MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a D period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by sta reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of thi iod will apply and will expire SIX (6) MOI tute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this commu BANDONED (35 U.S.C. § 133).	nication.		
Status						
1) 又	Responsive to communication(s) filed on 18	3.lune 2004				
·		his action is non-final.				
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5) <u></u> 6)⊠	Claim(s) 1-94! is/are pending in the applicated 4a) Of the above claim(s) is/are with description of the above claim(s) is/are allowed. Claim(s) 1-94 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	lrawn from consideration.				
Applicati	ion Papers					
9)[The specification is objected to by the Exami	iner.				
10)	The drawing(s) filed on is/are: a) a	· · · · · · · · · · · · · · · · · · ·	•			
	Applicant may not request that any objection to the					
11)	Replacement drawing sheet(s) including the corr The oath or declaration is objected to by the					
Priority ι	under 35 U.S.C. § 119					
12) <u>□</u> a)l	Acknowledgment is made of a claim for forei All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a life	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)).	pplication No received in this National Stag	je		
Attachmen	• •					
	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date			
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 or No(s)/Mail Date		nformal Patent Application (PTO-152))		

Art Unit: 2661

Response to Amendment

1. Applicant's arguments with respect to claims 1-94! have been considered but are moot in view of the new ground(s) of rejection. It is not clear why the applicant has 94 claims pending in this application while having 88 similar claims pending in 09/522,184 and also has filed numerous continuations. The applicant needs to file any terminal disclaimers that will be needed. At the present time, the examiner cannot locate all the pending applications in their present form.

Even though the applicant has 182 claims between this and the '184 case, the claims merely amount to receiving voice and fax data from and transmitting to both the PSTN and a packet based network. Why can't these 182 claims be condensed into 20 good claims?

2. Claim 12 specifies the phrase "capable of" and it has been held that the recitation that an element is "adapted to" perform a function is not a positive limitation but only requires the ability to so perform. It does not constitute a limitation in any patentable sense. In re Hutchison, 69 USPQ 138.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Art Unit: 2661

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1-3, 18, 20-28, 43, 45, 47-51, 58-59, 61, 66-68, 71-75, 82-83, 85-87, 90-91, 94 are rejected under 35 U.S.C. 102(e) as being anticipated by Arimilli (US 6,515,984).

As shown in e.g., Figs, 3-6C, 11-19, Arimilli discloses a plurality of signals and formats (receiving and transmitting at least voice and fax from and to both analog PSTN and digital leased lines, e.g., Fig. 6C and respective disclosure), a first device being a DTMF telephone (RX from PSTN, Fig. 6C); detecting inputs or formats (col. 7, lines 47-53; col. 9, lines 59-67; col. 23, lines 40-64); encoding voice data (col. 4, lines 46-65; col. 7, lines 11-27; col. 12, lines 43-49; col. 14, lines 15-65); receiving from DTMF circuit switched PSTN (col. 8); PCM data (col. 11, lines 50-67; col. 14, lines 54-65); fax (col. 8); using computer readable devices (col. 9); data pump or demodulating fax data or data that was modulated using a voice band carrier (pumping out data from fax demodulator, cols. 23-24; col. 4, lines 46-65; demodulating from analog carrier, col. 7, lines 1-10; col. 32, line 65-col. 24, line 14); selectively

Application/Control Number: 09/522,185

Page 4

Art Unit: 2661

outputting both the demodulated fax data and the encoded voice data (e.g., Figs. 2, 15-19; or col. 4, lines 30-46; outputting to digital leased lines, col. 5, lines 9-13; col. 6, lines 9-14; composite link, 315; muxing sporadic activity, col. 5, lines 40-51), decoding from packet network (Fig. 6A, col. 7, lines 30-47; input/output, 602, Fig. 6A; A/D and D/A, bi-directional, Fig. 6C; col. 6 lines 55-59), using packets (col. 5, lines 40-51); using packet data networks (col. 9, lines 15-47, especially line 39; DDS network, Fig. 6B); buffering data (col. 6, lines 30-47; 604, Fig. 6A; 402, Fig. 6C; col. 14, lines 40-53); echo cancellation (cols. 10-12, 15), rates and synchs (e.g., cols. 11-12, 15, 19-20), silence suppression, spoof data/muting (col. 20), voice activity detection (col. 12, lines 4-11; col. 20, lines 10-25; 1205, Fig. 12; col. 15, line 49-col. 16, line 59), using packets and frames (Figs. 15-19; col. 6, lines 48-65), digital data/packet network (DDN, col. 9, lines 34-39), as specified in claims in 1-3, 18, 20-28, 43, 45, 47-51, 58-59, 61, 66-68, 71-75, 82-83, 85-87, 90-91, 94.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2661

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-17, 19, 29-42, 44, 46, 52-57, 60, 63-65, 69-70, 76-81, 84, 88-89, 92-93 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arimilli (US 6,515,984) as set forth above in view of Murphy (US 2002/0036791).

However, Arimilli fails to particularly call for voice activity detection from the packet data network (PDN) to the PSTN; inserting comfort noise, using the buffers (col. 6, lines 30-47; 604, Fig. 6A; 402, Fig. 6C; col. 14, lines 40-53) for the purpose of jitter compensation, and adjusting holding times in the jitter buffers.

Murphy teaches voice activity detection from the packet data network and suppressing/muting when no voice is detected (claims 9-15, especially 9, 12), inserting comfort noise, spoofing data (claims 9-14, especially claim 12), using the buffers (claims 9-14) for the purpose of jitter compensation, adjusting holding times in the jitter buffers (claims 9-14, especially claim 10), specifically using IP (sections 29 and 38-39, 119), detecting lost packets (claim 13-14; using TCP

Art Unit: 2661

involves detecting lost packets by merely complying with the TCP retransmission part of the protocol, section 65).

It would have been obvious to add the reverse path voice activity detection of Murphy since it is clear that data is being received from the packet network disclosed in Arimilli (Fig. 6A, col. 7, lines 30-47; input/output, 602, Fig. 6A; A/D and D/A, Fig. 6C; col. 6 lines 55-59). By detecting voice silence in both directions, and using the various buffers (e.g., col. 7, lines 1-270 to compensate for jitter and detecting lost packets, Arimilli could make the signals sound more natural or pleasing and Arimilli is clearly concerned with quality (cols. 13-14, especially col. 13, lines 39-40 and col. 14, lines 2-6).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David R Vincent whose telephone number is 703 305 4957. The examiner can normally be reached on M-TH.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Olms can be reached on 703 305 4703. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2661

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David R Vincent
Primary Examiner
Art Unit 2661

July 1, 2004